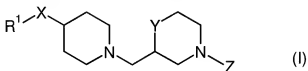


Amendments to the Claims:

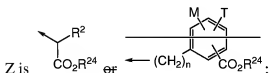
This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A compound of formula (I):



wherein:



n is 0 or 1;

X is ~~CH₃~~, C(O), O, S, S(O), S(O)₂ or NR³;

Y is ~~O~~ or CH₂;

R¹ is ~~hydrogen, C₁-₆ alkyl, aryl or heterocycl~~yl;

R² is C₃-₇ cycloalkyl {optionally substituted by C₁-₄ alkyl, aryl or oxo}, C₃-₇ cycloalkenyl {optionally substituted by oxo, C₁-₆ alkyl or aryl}, aryl or heterocycl~~yl~~; wherein the foregoing aryl and heterocycl~~yl~~ moieties are optionally substituted by: halogen, cyano, nitro, hydroxy, oxo, S(O)<sub>p</sub>R⁴, OC(O)NR⁵R⁶, NR⁷R⁸, NR⁹C(O)R¹⁰, NR¹¹C(O)NR¹²R¹³, S(O)₂NR¹⁴R¹⁵, NR¹⁶S(O)₂R¹⁷, C(O)NR¹⁸R¹⁹, C(O)R²⁰, CO₂R²¹, NR²²CO₂R²³, C₁-₆ alkyl, C₁-₆ haloalkyl, C₁-₆ alkoxy(C₁-₆)alkyl, C₁-₆ alkoxy, C₁-₆ haloalkoxy, C₁-₆ alkoxy(C₁-₆)alkoxy, C₁-₆ alkylthio, C₁-₆ haloalkylthio, C₂-₆ alkenyl, C₂-₆ alkynyl, C₃-₁₀ cycloalkyl (~~itself~~ optionally substituted by C₁-₄ alkyl or oxo), methylenedioxy, difluoromethylenedioxy, phenyl, phenyl(C₁-₄)alkyl, phenoxy, phenylthio, phenyl(C₁-₄)alkoxy, heterocycl~~yl~~, heterocycl~~yl~~(C₁-₄)alkyl, heterocycl~~yl~~oxy or heterocycl~~yl~~(C₁-₄)alkoxy; wherein any of the immediately foregoing phenyl and heterocycl~~yl~~ moieties are optionally substituted with halogen, hydroxy, nitro, S(O)<sub>q</sub>(C₁-₄ alkyl), S(O)₂NH₂, cyano, C₁-₄

alkyl, C<sub>1-4</sub> alkoxy, C(O)NH<sub>2</sub>, C(O)NH(C<sub>1-4</sub> alkyl), C(O)N(C<sub>1-4</sub> alkyl)<sub>2</sub> (and these alkyl groups may join optionally being joined to form a ring as described for R<sup>5</sup> and R<sup>6</sup> below), CO<sub>2</sub>H, CO<sub>2</sub>(C<sub>1-4</sub> alkyl), NHC(O)(C<sub>1-4</sub> alkyl), NHS(O)<sub>2</sub>(C<sub>1-4</sub> alkyl), C(O)(C<sub>1-4</sub> alkyl), CF<sub>3</sub> or OCF<sub>3</sub>;

M and T are, independently, hydrogen, halogen, cyano, nitro, hydroxy, oxo, S(O)<sub>p</sub>R<sup>4</sup>, OC(O)NR<sup>5</sup>R<sup>6</sup>, NR<sup>7</sup>R<sup>8</sup>, NR<sup>9</sup>C(O)R<sup>10</sup>, NR<sup>11</sup>C(O)NR<sup>12</sup>R<sup>13</sup>, S(O)<sub>2</sub>NR<sup>14</sup>R<sup>15</sup>, NR<sup>16</sup>S(O)<sub>2</sub>R<sup>17</sup>, C(O)NR<sup>18</sup>R<sup>19</sup>, C(O)R<sup>20</sup>, CO<sub>2</sub>R<sup>21</sup>, NR<sup>22</sup>CO<sub>2</sub>R<sup>23</sup>, C<sub>1-6</sub> alkyl, C<sub>1-6</sub> haloalkyl, C<sub>1-6</sub> alkoxy(C<sub>1-6</sub>)alkyl, C<sub>1-6</sub> alkoxy, C<sub>1-6</sub> haloalkoxy, C<sub>1-6</sub> alkoxy(C<sub>1-6</sub>)alkoxy, C<sub>1-6</sub> alkylthio, C<sub>1-6</sub> haloalkylthio, C<sub>2-6</sub> alkenyl, C<sub>2-6</sub> alkynyl, C<sub>3-10</sub> cycloalkyl (itself optionally substituted by C<sub>1-4</sub> alkyl or oxo), methylenedioxy, difluoromethylenedioxy, phenyl, phenyl(C<sub>1-4</sub>)alkyl, phenoxy, phenylthio, phenyl(C<sub>1-4</sub>)alkoxy, heterocyclyl, heterocyclyl(C<sub>1-4</sub>)alkyl, heterocyclxyloxy or heterocyclyl(C<sub>1-4</sub>)alkoxy; wherein any of the immediately foregoing phenyl and heterocyclyl moieties are optionally substituted with halogen, hydroxy, nitro, S(O)<sub>q</sub>(C<sub>1-4</sub> alkyl), S(O)<sub>2</sub>NH<sub>2</sub>, cyano, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy, C(O)NH<sub>2</sub>, C(O)NH(C<sub>1-4</sub> alkyl), C(O)N(C<sub>1-4</sub> alkyl)<sub>2</sub> (and these alkyl groups may join optionally being joined to form a ring as described for R<sup>5</sup> and R<sup>6</sup> below), CO<sub>2</sub>H, CO<sub>2</sub>(C<sub>1-4</sub> alkyl), NHC(O)(C<sub>1-4</sub> alkyl), NHS(O)<sub>2</sub>(C<sub>1-4</sub> alkyl), C(O)(C<sub>1-4</sub> alkyl), CF<sub>3</sub> or OCF<sub>3</sub>;

p and q are, independently, 0, 1 or 2;

R<sup>3</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup>, R<sup>9</sup>, R<sup>10</sup>, R<sup>11</sup>, R<sup>12</sup>, R<sup>13</sup>, R<sup>14</sup>, R<sup>15</sup>, R<sup>16</sup>, R<sup>18</sup>, R<sup>19</sup>, R<sup>20</sup>, R<sup>21</sup> and R<sup>22</sup> are, independently, hydrogen, C<sub>1-6</sub> alkyl (optionally substituted by halogen, hydroxy or C<sub>3-10</sub> cycloalkyl), CH<sub>2</sub>(C<sub>2-6</sub> alkenyl), phenyl (itself optionally substituted by halogen, hydroxy, nitro, NH<sub>2</sub>, NH(C<sub>1-4</sub> alkyl), N(C<sub>1-4</sub> alkyl)<sub>2</sub> (and these alkyl groups may join optionally being joined to form a ring as described for R<sup>5</sup> and R<sup>6</sup> below), S(O)<sub>2</sub>(C<sub>1-4</sub> alkyl), S(O)<sub>2</sub>NH<sub>2</sub>, cyano, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy, C(O)NH<sub>2</sub>, C(O)NH(C<sub>1-4</sub> alkyl), C(O)N(C<sub>1-4</sub> alkyl)<sub>2</sub> (and these alkyl groups may join optionally being joined to form a ring as described for R<sup>5</sup> and R<sup>6</sup> below), CO<sub>2</sub>H, CO<sub>2</sub>(C<sub>1-4</sub> alkyl), NHC(O)(C<sub>1-4</sub> alkyl), NHS(O)<sub>2</sub>(C<sub>1-4</sub> alkyl), C(O)(C<sub>1-4</sub> alkyl), CF<sub>3</sub> or OCF<sub>3</sub>) or heterocyclyl (itself optionally substituted by halogen, hydroxy, nitro, NH<sub>2</sub>, NH(C<sub>1-4</sub> alkyl), N(C<sub>1-4</sub> alkyl)<sub>2</sub> (and these alkyl groups may join optionally being joined to form a ring as described for R<sup>5</sup> and R<sup>6</sup> below), S(O)<sub>2</sub>(C<sub>1-4</sub> alkyl), S(O)<sub>2</sub>NH<sub>2</sub>, S(O)<sub>2</sub>NH(C<sub>1-4</sub> alkyl), S(O)<sub>2</sub>N(C<sub>1-4</sub> alkyl)<sub>2</sub> (and these alkyl groups may join optionally being joined to form a ring as described for R<sup>5</sup> and R<sup>6</sup> below), cyano, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy, C(O)NH<sub>2</sub>, C(O)NH(C<sub>1-4</sub> alkyl), C(O)N(C<sub>1-4</sub> alkyl)<sub>2</sub> (and these alkyl groups

~~may join~~ optionally being joined to form a ring as described for R<sup>5</sup> and R<sup>6</sup> below), CO<sub>2</sub>H, CO<sub>2</sub>(C<sub>1-4</sub> alkyl), NHC(O)(C<sub>1-4</sub> alkyl), NHS(O)<sub>2</sub>(C<sub>1-4</sub> alkyl), C(O)(C<sub>1-4</sub> alkyl), CF<sub>3</sub> or OCF<sub>3</sub>); alternatively NR<sup>5</sup>R<sup>6</sup>, NR<sup>7</sup>R<sup>8</sup>, NR<sup>12</sup>R<sup>13</sup>, NR<sup>14</sup>R<sup>15</sup>, ~~or~~ NR<sup>18</sup>R<sup>19</sup>, ~~may~~, independently, form a 4-7 membered heterocyclic ring, azetidine, pyrrolidine, piperidine, azepine, 1,4-morpholine or 1,4-piperazine, the latter optionally substituted by C<sub>1-4</sub> alkyl on the distal nitrogen;

R<sup>4</sup>, R<sup>17</sup> and R<sup>23</sup> are, independently, C<sub>1-6</sub> alkyl (optionally substituted by halogen, hydroxy or C<sub>3-10</sub> cycloalkyl), CH<sub>2</sub>(C<sub>2-6</sub> alkenyl), phenyl (~~itself~~ optionally substituted by halogen, hydroxy, nitro, NH<sub>2</sub>, NH(C<sub>1-4</sub> alkyl), N(C<sub>1-4</sub> alkyl)<sub>2</sub> (and these alkyl groups ~~may join~~ optionally being joined to form a ring as described for R<sup>5</sup> and R<sup>6</sup> above), S(O)<sub>2</sub>(C<sub>1-4</sub> alkyl), S(O)<sub>2</sub>NH<sub>2</sub>, S(O)<sub>2</sub>NH(C<sub>1-4</sub> alkyl), S(O)<sub>2</sub>N(C<sub>1-4</sub> alkyl)<sub>2</sub> (and these alkyl groups ~~may join~~ optionally being joined to form a ring as described for R<sup>5</sup> and R<sup>6</sup> above), cyano, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy, C(O)NH<sub>2</sub>, C(O)NH(C<sub>1-4</sub> alkyl), C(O)N(C<sub>1-4</sub> alkyl)<sub>2</sub> (and these alkyl groups ~~may join~~ optionally being joined to form a ring as described for R<sup>5</sup> and R<sup>6</sup> above), CO<sub>2</sub>H, CO<sub>2</sub>(C<sub>1-4</sub> alkyl), NHC(O)(C<sub>1-4</sub> alkyl), NHS(O)<sub>2</sub>(C<sub>1-4</sub> alkyl), C(O)(C<sub>1-4</sub> alkyl), CF<sub>3</sub> or OCF<sub>3</sub>) or heterocycl~~yl~~ (~~itself~~ optionally substituted by halogen, hydroxy, nitro, NH<sub>2</sub>, NH(C<sub>1-4</sub> alkyl), N(C<sub>1-4</sub> alkyl)<sub>2</sub> (and these alkyl groups ~~may join~~ optionally being joined to form a ring as described for R<sup>5</sup> and R<sup>6</sup> above), S(O)<sub>2</sub>(C<sub>1-4</sub> alkyl), S(O)<sub>2</sub>NH<sub>2</sub>, S(O)<sub>2</sub>NH(C<sub>1-4</sub> alkyl), S(O)<sub>2</sub>N(C<sub>1-4</sub> alkyl)<sub>2</sub> (and these alkyl groups ~~may join~~ optionally being joined to form a ring as described for R<sup>5</sup> and R<sup>6</sup> above), cyano, C<sub>1-4</sub> alkyl, C<sub>1-4</sub> alkoxy, C(O)NH<sub>2</sub>, C(O)NH(C<sub>1-4</sub> alkyl), C(O)N(C<sub>1-4</sub> alkyl)<sub>2</sub> (and these alkyl groups ~~may join~~ optionally being joined to form a ring as described for R<sup>5</sup> and R<sup>6</sup> above), CO<sub>2</sub>H, CO<sub>2</sub>(C<sub>1-4</sub> alkyl), NHC(O)(C<sub>1-4</sub> alkyl), NHS(O)<sub>2</sub>(C<sub>1-4</sub> alkyl), C(O)(C<sub>1-4</sub> alkyl), CF<sub>3</sub> or OCF<sub>3</sub>);

R<sup>24</sup> is hydrogen, C<sub>1-6</sub> alkyl or benzyl;

or an N-oxide thereof; or a pharmaceutically acceptable salt thereof; ~~or a solvate thereof.~~

2-4. (Cancelled)

5. (Previously Presented) A compound of formula (I) as claimed in claim 1 wherein R<sup>24</sup> is hydrogen.

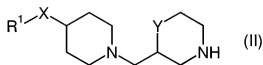
6. (Previously Presented) A compound of formula (I) as claimed in claim 1 wherein  $R^1$  is phenyl optionally substituted with fluorine, chlorine or  $C_{1-4}$  alkyl.

7. (Currently Amended) A compound of formula (I) as claimed in claim 1 wherein  $R^2$  is phenyl or heterocyclyl, either of which is optionally substituted by: halo, hydroxy, nitro, cyano, amino,  $C_{1-4}$  alkyl (itself optionally substituted by  $S(O)_2(C_{1-4}$  alkyl) or  $S(O)_2$ phenyl),  $C_{1-4}$  alkoxy,  $S(O)_pR^4$  (wherein p is 0, 1 or 2),  $C(O)NH_2$ ,  $NHS(O)_2(C_{1-4}$  alkyl),  $S(O)_2NH_2$ ,  $S(O)_2NH(C_{1-4}$  alkyl) or  $S(O)_2N(C_{1-4}$  alkyl) $_2$ ; and  $R^4$  is  $C_{1-4}$  alkyl,  $C_{1-4}$  hydroxyalkyl,  $C_{3-7}$  cycloalkyl or  $C_{3-7}$  cycloalkyl( $C_{1-4}$  alkyl).

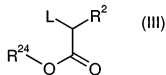
8. (Withdrawn) A process for preparing a compound of formula (I) as claimed in claim 1, the process comprising:

A. when Z is  $CHR^2CO_2R^{24}$ :

i. coupling a compound of formula (II):

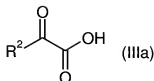


with a compound of formula (III):



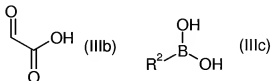
wherein L is a suitable leaving group, in a suitable solvent; or,

ii. reductive amination of a compound (II) with an ester compound of formula (IIIa):

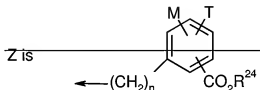


in the presence of  $NaBH(OAc)_3$  and acetic acid, followed optionally by removal of the ester group; or

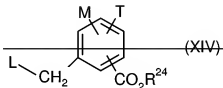
iii. a three component coupling of a compound of formula (II) with compounds of formula (IIIb) and (IIIc);



~~B. when~~

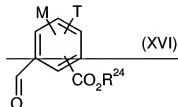


a. when n is 1, reacting a compound of formula (II) with a compound of formula (XIV):



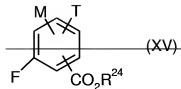
~~wherein L is a leaving group;~~

b. when n is 1, reacting a compound of formula (II) with a compound of formula (XVI):



~~under reductive amination conditions; and,~~

e.—when n is 0, reacting a compound of formula (II) with a compound of formula (XV):



~~in the presence of potassium carbonate, in a suitable solvent at a suitable temperature.~~

9. (Currently Amended) A pharmaceutical composition which comprises a compound of the formula (I), or a pharmaceutically acceptable salt thereof, ~~or solvate thereof~~ as claimed in claim 1, and a pharmaceutically acceptable adjuvant, diluent or carrier.

10-11. (Cancelled)

12. (Withdrawn) A method comprising:  
treating a chemokine mediated disease state in a mammal suffering from, or at risk of, said disease, which comprises administering to a mammal in need of such treatment a therapeutically effective amount of a compound of formula (I), or a pharmaceutically acceptable salt thereof ~~or solvate thereof~~ as claimed in claim 1.